

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.002
Model:              OLS  Adj. R-squared:    -0.001
Method:             Least Squares  F-statistic:    0.5135
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.474
Time:               19:11:12  Log-Likelihood:    -7987.7
No. Observations:   335  AIC:              1.598e+04
Df Residuals:       333  BIC:              1.599e+04
Df Model:           1
Covariance Type:    nonrobust
=====
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```
=====
              coef  std err      t    P>|t|   [0.025   0.975]
-----
const        -8.236e+08  4.22e+08   -1.950   0.052  -1.65e+09   7.04e+06
# of past defaults  1.946e+08  2.72e+08    0.717   0.474  -3.4e+08   7.29e+08
=====
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=====
Omnibus:          291.175  Durbin-Watson:      2.412
Prob(Omnibus):    0.000  Jarque-Bera (JB):    17811.958
Skew:             -3.116  Prob(JB):             0.00
Kurtosis:         38.174  Cond. No.             2.72
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.9053011880289863
LM P-Value: 0.6359402961575973
F Statistic: 0.44981257633600347
F P-Value: 0.6381357504703624

Rainbow Test Results:

Rainbow Statistic: 3.302759235763397
Rainbow P-Value: 3.9575287927180915e-14

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.2507				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.617				
Time:	19:11:12	Log-Likelihood:	-5352.1				
No. Observations:	223	AIC:	1.071e+04				
Df Residuals:	221	BIC:	1.072e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-5.383e+08	8.06e+08	-0.668	0.505	-2.13e+09	1.05e+09	
Adjusted savings: gross savings (% of GNI)	-1.862e+07	3.72e+07	-0.501	0.617	-9.19e+07	5.47e+07	
=====							
Omnibus:	194.421	Durbin-Watson:	2.342				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6721.074				
Skew:	-3.049	Prob(JB):	0.00				
Kurtosis:	29.194	Cond. No.	40.6				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.28839570222092803
LM P-Value: 0.8657164481532115
F Statistic: 0.14244218366765066
F P-Value: 0.8673176101301003

Rainbow Test Results:

Rainbow Statistic: 4.578190390913432
Rainbow P-Value: 1.3446656328289334e-14

Regression Summary:

OLS Regression Results			
=====			
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.004
Method:	Least Squares	F-statistic:	0.07854
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.780
Time:	19:11:13	Log-Likelihood:	-5352.2
No. Observations:	223	AIC:	1.071e+04
Df Residuals:	221	BIC:	1.072e+04
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]

const	-9.616e+08	5.22e+08	-1.841	0.067	-1.99e+09	6.76e+07
Adjusted savings: net national savings (% of GNI)	1.024e+07	3.65e+07	0.280	0.780	-6.18e+07	8.22e+07
=====						
Omnibus:	194.586	Durbin-Watson:	2.349			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6631.745			
Skew:	-3.060	Prob(JB):	0.00			
Kurtosis:	29.005	Cond. No.	17.3			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.016174179639026676
LM P-Value: 0.9919455227186376
F Statistic: 0.007978873596532716
F P-Value: 0.9920531601860565

Rainbow Test Results:

Rainbow Statistic: 4.560502418242041
Rainbow P-Value: 1.542954791675565e-14

Regression Summary:

OLS Regression Results

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=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.017
Model:              OLS  Adj. R-squared:    -0.014
Method:             Least Squares  F-statistic:    0.5467
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.465
Time:               19:11:14  Log-Likelihood:  -821.20
No. Observations:   33  AIC:                1646.
Df Residuals:       31  BIC:                1649.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -4.999e+09  2.92e+09  -1.709   0.097  -1.1e+10  9.66e+08
Banking Crisis Dummy  7.173e+09  9.7e+09   0.739   0.465  -1.26e+10  2.7e+10
=====
```

```
=====
Omnibus:          7.103  Durbin-Watson:      2.703
Prob(Omnibus):    0.029  Jarque-Bera (JB):      5.904
Skew:             -0.718  Prob(JB):          0.0522
Kurtosis:         4.495  Cond. No.          3.51
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.13980208547518647
LM P-Value: 0.7084778454042329
F Statistic: 0.13188796552607274
F P-Value: 0.7189472486068704

Rainbow Test Results:

Rainbow Statistic: 4.589165306312617
Rainbow P-Value: 0.0030894255914414408

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.003

Model:

OLS

Adj. R-squared:

-0.001

Method:

Least Squares

F-statistic:

0.3651

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.546

Time:

19:11:14

Log-Likelihood:

-6725.3

No. Observations:

284

AIC:

1.345e+04

Df Residuals:

282

BIC:

1.346e+04

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

-1.176e+08

3.3e+08

-0.357

0.721

-7.64e+08

5.29e+08

Broad money growth (annual %)

-1.121e+07

1.86e+07

-0.604

0.546

-4.76e+07

2.52e+07

Omnibus:

206.300

Durbin-Watson:

2.512

Prob(Omnibus):

0.000

Jarque-Bera (JB):

15037.720

Skew:

-2.155

Prob(JB):

0.00

Kurtosis:

38.387

Cond. No.

37.8

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 5.6245086805820375
LM P-Value: 0.06006942271980481
F Statistic: 2.838768118113608
F P-Value: 0.06017668211337761

Rainbow Test Results:

Rainbow Statistic: 4.637617558371174
Rainbow P-Value: 1.913141122858656e-18

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.2436				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.622				
Time:	19:11:15	Log-Likelihood:	-6145.4				
No. Observations:	259	AIC:	1.229e+04				
Df Residuals:	257	BIC:	1.230e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-4.12e+08	3.48e+08	-1.185	0.237	-1.1e+09	2.73e+08	
Broad money to total reserves ratio	1.292e+07	2.62e+07	0.494	0.622	-3.86e+07	6.45e+07	
=====							
Omnibus:	187.333	Durbin-Watson:	2.522				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	11648.154				
Skew:	-2.138	Prob(JB):	0.00				
Kurtosis:	35.574	Cond. No.	15.2				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.16430608807194835
LM P-Value: 0.9211309743062451
F Statistic: 0.0812530101832253
F P-Value: 0.9219841634933656

Rainbow Test Results:

Rainbow Statistic: 4.593849308002938
Rainbow P-Value: 9.172095428304808e-17

Regression Summary:

OLS Regression Results

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=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.004
Method:             Least Squares  F-statistic:    0.04564
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.831
Time:               19:11:15  Log-Likelihood:    -6501.9
No. Observations:   272  AIC:              1.301e+04
Df Residuals:       270  BIC:              1.302e+04
Df Model:            1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t    P>|t|    [0.025    0.975]
-----
const  -6.722e+08  4.6e+08   -1.460    0.146  -1.58e+09   2.34e+08
CA      9.247e+06  4.33e+07    0.214    0.831  -7.6e+07   9.45e+07
=====
```

```
=====
Omnibus:           254.090  Durbin-Watson:           2.323
Prob(Omnibus):      0.000  Jarque-Bera (JB):       12532.045
Skew:               -3.444  Prob(JB):               0.00
Kurtosis:           35.532  Cond. No.                13.9
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.5082351531054918
LM P-Value: 0.4704255461631225
F Statistic: 0.7499586104128141
F P-Value: 0.47337116082350106

Rainbow Test Results:

Rainbow Statistic: 4.597933771818248
Rainbow P-Value: 1.4311700323094948e-17

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.000

Model:

OLS

Adj. R-squared:

-0.017

Method:

Least Squares

F-statistic:

0.005668

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.940

Time:

19:11:16

Log-Likelihood:

-1479.7

No. Observations:

61

AIC:

2963.

Df Residuals:

59

BIC:

2968.

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-1.543e+09

1.93e+09

-0.800

0.427

-5.4e+09

2.32e+09

Central government debt, total (% of GDP)

-2.429e+06

3.23e+07

-0.075

0.940

-6.7e+07

6.21e+07

Omnibus:

68.782

Durbin-Watson:

2.008

Prob(Omnibus):

0.000

Jarque-Bera (JB):

985.789

Skew:

-2.808

Prob(JB):

8.68e-215

Kurtosis:

21.876

Cond. No.

107.

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.9967780614616802
LM P-Value: 0.6075085494298886
F Statistic: 0.4817501935479061
F P-Value: 0.6201508475092281

Rainbow Test Results:

Rainbow Statistic: 4.594288552455146
Rainbow P-Value: 5.315670184324722e-05

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.005				
Model:	OLS	Adj. R-squared:	0.001				
Method:	Least Squares	F-statistic:	1.371				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.243				
Time:	19:11:16	Log-Likelihood:	-6781.3				
No. Observations:	284	AIC:	1.357e+04				
Df Residuals:	282	BIC:	1.357e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-8.17e+08	3.73e+08	-2.188	0.029	-1.55e+09	-8.2e+07	
Claims on central government, etc. (% GDP)	2.081e+07	1.78e+07	1.171	0.243	-1.42e+07	5.58e+07	
=====							
Omnibus:	275.067	Durbin-Watson:	2.355				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14972.952				
Skew:	-3.658	Prob(JB):	0.00				
Kurtosis:	37.811	Cond. No.	23.2				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.272608974646646
LM P-Value: 0.5292446448870947
F Statistic: 0.6324168319503994
F P-Value: 0.5320606590831539

Rainbow Test Results:

Rainbow Statistic: 4.569844437797747
Rainbow P-Value: 3.741884664699324e-18

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.122						
Model:	OLS	Adj. R-squared:	0.119						
Method:	Least Squares	F-statistic:	1.649						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.200						
Time:	19:11:17	Log-Likelihood:	-6660.4						
No. Observations:	282	AIC:	1.332e+04						
Df Residuals:	280	BIC:	1.333e+04						
Df Model:	1								
Covariance Type:	HC3								
=====									
		coef	std err	z	P> z	[0.025	0.975]		

const		6.607e+08	6.6e+08	1.001	0.317	-6.32e+08	1.95e+09		
Claims on private sector (annual growth as % of broad money)		-7.493e+07	5.84e+07	-1.284	0.199	-1.89e+08	3.94e+07		
=====									
Omnibus:	113.612	Durbin-Watson:	2.260						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10481.837						
Skew:	-0.538	Prob(JB):	0.00						
Kurtosis:	32.848	Cond. No.	29.5						
=====									

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 14.126053244461739
LM P-Value: 0.0008561828265319476
F Statistic: 7.356387030056221
F P-Value: 0.0007701066194625382

Rainbow Test Results:

Rainbow Statistic: 3.9389245245264997
Rainbow P-Value: 3.1685775949676188e-15

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.002				
Method:	Least Squares	F-statistic:	0.3664				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.545				
Time:	19:11:17	Log-Likelihood:	-6616.6				
No. Observations:	278	AIC:	1.324e+04				
Df Residuals:	276	BIC:	1.324e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-8.262e+08	5.88e+08	-1.405	0.161	-1.98e+09	3.31e+08	
Consumer price index (2010 = 100)	4.663e+06	7.7e+06	0.605	0.545	-1.05e+07	1.98e+07	
=====							
Omnibus:	264.842	Durbin-Watson:	2.562				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	20209.032				
Skew:	-3.394	Prob(JB):	0.00				
Kurtosis:	44.214	Cond. No.	142.				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.08785462233940122
LM P-Value: 0.9570235198650396
F Statistic: 0.04346701204890992
F P-Value: 0.9574707152219372

Rainbow Test Results:

Rainbow Statistic: 3.561257344029075
Rainbow P-Value: 2.868291951189863e-13

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.037				
Model:	OLS	Adj. R-squared:	0.020				
Method:	Least Squares	F-statistic:	2.139				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.149				
Time:	19:11:17	Log-Likelihood:	-1395.8				
No. Observations:	57	AIC:	2796.				
Df Residuals:	55	BIC:	2800.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-7.268e+08	1.86e+09	-0.390	0.698	-4.46e+09	3.01e+09	
Cyclically adjusted balance (% of potential GDP)	4.803e+08	3.28e+08	1.463	0.149	-1.78e+08	1.14e+09	
=====							
Omnibus:	34.568	Durbin-Watson:	1.607				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	163.404				
Skew:	-1.433	Prob(JB):	3.29e-36				
Kurtosis:	10.784	Cond. No.	7.61				
=====							

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.5057379773600306
LM P-Value: 0.4710132806377981
F Statistic: 0.7325969191577831
F P-Value: 0.4853746247843367

Rainbow Test Results:

Rainbow Statistic: 8.166993080228645
Rainbow P-Value: 3.4456134084925556e-07

Regression Summary:

OLS Regression Results

=====

Dep. Variable: Sum_GDPcycle R-squared: 0.112

Model: OLS Adj. R-squared: 0.095

Method: Least Squares F-statistic: 6.800

Date: Sat, 26 Aug 2023 Prob (F-statistic): 0.0118

Time: 19:11:18 Log-Likelihood: -1368.7

No. Observations: 56 AIC: 2741.

Df Residuals: 54 BIC: 2745.

Df Model: 1

Covariance Type: nonrobust

=====

	coef	std err	t	P> t	[0.025	0.975]		

const	-8.953e+08	1.45e+09	-0.616	0.541	-3.81e+09	2.02e+09		
Cyclically adjusted primary balance (% of potential GDP)	8.662e+08	3.32e+08	2.608	0.012	2e+08	1.53e+09		
=====								
Omnibus:	38.952	Durbin-Watson:	1.560					
Prob(Omnibus):	0.000	Jarque-Bera (JB):	179.518					
Skew:	-1.724	Prob(JB):	1.04e-39					
Kurtosis:	11.065	Cond. No.	4.73					
=====								

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.249662897461973

LM P-Value: 0.882645661093792

F Statistic: 0.1186731260579428

F P-Value: 0.8883333663627215

Rainbow Test Results:

Rainbow Statistic: 7.296084018176722

Rainbow P-Value: 1.2004971900888514e-06

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.012				
Model:	OLS	Adj. R-squared:	0.008				
Method:	Least Squares	F-statistic:	0.07126				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.790				
Time:	19:11:18	Log-Likelihood:	-5975.2				
No. Observations:	252	AIC:	1.195e+04				
Df Residuals:	250	BIC:	1.196e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	-3.962e+08	3.21e+08	-1.234	0.217	-1.03e+09	2.33e+08	
Debt service on external debt, total (TDS, current US\$)	0.0830	0.311	0.267	0.790	-0.527	0.693	
=====							
Omnibus:	254.697	Durbin-Watson:	2.396				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16971.534				
Skew:	-3.724	Prob(JB):	0.00				
Kurtosis:	42.508	Cond. No.	6.84e+09				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 6.84e+09. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 104.75617579717205
LM P-Value: 1.3812888418637108e-24
F Statistic: 177.86174796178668
F P-Value: 5.252001959809037e-31

Rainbow Test Results:

Rainbow Statistic: 5.771493959180184
Rainbow P-Value: 1.41857818198818e-20

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.076				
Model:	OLS	Adj. R-squared:	0.072				
Method:	Least Squares	F-statistic:	2.836				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0935				
Time:	19:11:19	Log-Likelihood:	-5776.1				
No. Observations:	242	AIC:	1.156e+04				
Df Residuals:	240	BIC:	1.156e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	8.202e+08	7.28e+08	1.127	0.260	-6.06e+08	2.25e+09	
Domestic credit to private sector (% of GDP)	-4.837e+07	2.87e+07	-1.684	0.092	-1.05e+08	7.92e+06	
=====							
Omnibus:	219.273	Durbin-Watson:	2.348				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10691.488				
Skew:	-3.174	Prob(JB):	0.00				
Kurtosis:	34.938	Cond. No.	61.2				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 12.321988167708367
LM P-Value: 0.0021101545581807967
F Statistic: 6.4110516034784215
F P-Value: 0.0019401462492170283

Rainbow Test Results:

Rainbow Statistic: 7.150990022485511
Rainbow P-Value: 6.66146700891421e-24

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.000

Model:

OLS

Adj. R-squared:

-0.003

Method:

Least Squares

F-statistic:

0.1271

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.722

Time:

19:11:19

Log-Likelihood:

-7987.9

No. Observations:

335

AIC:

1.598e+04

Df Residuals:

333

BIC:

1.599e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-7.481e+08

4.88e+08

-1.532

0.126

-1.71e+09

2.12e+08

Dummy for past default

2.209e+08

6.2e+08

0.356

0.722

-9.98e+08

1.44e+09

Omnibus:

292.224

Durbin-Watson:

2.410

Prob(Omnibus):

0.000

Jarque-Bera (JB):

17849.629

Skew:

-3.136

Prob(JB):

0.00

Kurtosis:

38.206

Cond. No.

3.01

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.09633262327927661
LM P-Value: 0.7562758244184209
F Statistic: 0.09578504709509929
F P-Value: 0.7571411734969686

Rainbow Test Results:

Rainbow Statistic: 3.3546580109611632
Rainbow P-Value: 1.956045110907372e-14

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002				
Model:	OLS	Adj. R-squared:	-0.002				
Method:	Least Squares	F-statistic:	0.4740				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.492				
Time:	19:11:20	Log-Likelihood:	-6396.0				
No. Observations:	267	AIC:	1.280e+04				
Df Residuals:	265	BIC:	1.280e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-3.093e+08	7.23e+08	-0.428	0.669	-1.73e+09	1.11e+09	
Exports of goods and services (% of GDP)	-1.355e+07	1.97e+07	-0.688	0.492	-5.23e+07	2.52e+07	
=====							
Omnibus:	218.759	Durbin-Watson:	2.401				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8952.370				
Skew:	-2.826	Prob(JB):	0.00				
Kurtosis:	30.799	Cond. No.	70.5				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.588998156495038
LM P-Value: 0.16621069004744476
F Statistic: 1.79851165418977
F P-Value: 0.16756743984035938

Rainbow Test Results:

Rainbow Statistic: 3.442777693222731
Rainbow P-Value: 3.0365975419730082e-12

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.2835				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.595				
Time:	19:11:20	Log-Likelihood:	-5235.0				
No. Observations:	218	AIC:	1.047e+04				
Df Residuals:	216	BIC:	1.048e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.015e+09	4.62e+08	-2.196	0.029	-1.93e+09	-1.04e+08	
Exports of goods and services (annual % growth)	1.057e+07	1.98e+07	0.532	0.595	-2.85e+07	4.97e+07	
=====							
Omnibus:	187.891	Durbin-Watson:	2.340				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6114.910				
Skew:	-2.999	Prob(JB):	0.00				
Kurtosis:	28.243	Cond. No.	24.4				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.6260978414318599
LM P-Value: 0.7312141401746481
F Statistic: 0.3096301685049022
F P-Value: 0.7340448769319715

Rainbow Test Results:

Rainbow Statistic: 4.8142408026244565
Rainbow P-Value: 4.203041903605804e-15

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.003

Model:

OLS

Adj. R-squared:

-0.001

Method:

Least Squares

F-statistic:

0.7384

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.391

Time:

19:11:20

Log-Likelihood:

-6395.8

No. Observations:

267

AIC:

1.280e+04

Df Residuals:

265

BIC:

1.280e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-9.487e+08

4.52e+08

-2.101

0.037

-1.84e+09

-5.95e+07

External balance on goods and services (% of GDP)

-2.039e+07

2.37e+07

-0.859

0.391

-6.71e+07

2.63e+07

Omnibus:

211.504

Durbin-Watson:

2.426

Prob(Omnibus):

0.000

Jarque-Bera (JB):

8657.105

Skew:

-2.675

Prob(JB):

0.00

Kurtosis:

30.378

Cond. No.

22.9

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.563816934972799
LM P-Value: 0.16831661376327917
F Statistic: 1.7857221811488557
F P-Value: 0.1696952288986055

Rainbow Test Results:

Rainbow Statistic: 3.327942354713605
Rainbow P-Value: 1.0446552252670582e-11

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.004				
Method:	Least Squares	F-statistic:	0.0004010				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.984				
Time:	19:11:21	Log-Likelihood:	-5814.1				
No. Observations:	245	AIC:	1.163e+04				
Df Residuals:	243	BIC:	1.164e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-2.589e+08	4.62e+08	-0.560	0.576	-1.17e+09	6.51e+08	
External debt stocks (% of GNI)	1.076e+05	5.37e+06	0.020	0.984	-1.05e+07	1.07e+07	
=====							
Omnibus:	185.565	Durbin-Watson:	2.510				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	12133.092				
Skew:	-2.255	Prob(JB):	0.00				
Kurtosis:	37.179	Cond. No.	127.				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 4.003143161457057
LM P-Value: 0.13512275995607612
F Statistic: 2.0099030704820215
F P-Value: 0.1362324534644577

Rainbow Test Results:

Rainbow Statistic: 5.553575110652624
Rainbow P-Value: 2.68813746418945e-19

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.008
Model:              OLS  Adj. R-squared:      0.004
Method:             Least Squares  F-statistic:      1.281
Date:               Sat, 26 Aug 2023  Prob (F-statistic):      0.259
Time:               19:11:21  Log-Likelihood:      -5840.7
No. Observations:   245  AIC:      1.169e+04
Df Residuals:       243  BIC:      1.169e+04
Df Model:            1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z  P>|z|  [0.025  0.975]
-----
const      2.119e+09  2.3e+09    0.920   0.357  -2.39e+09  6.63e+09
Food Price Index -3.203e+07  2.83e+07   -1.132   0.258  -8.75e+07  2.34e+07
=====
```

```
=====
Omnibus:      233.778  Durbin-Watson:      1.737
Prob(Omnibus):      0.000  Jarque-Bera (JB):      14405.399
Skew:          -3.375  Prob(JB):      0.00
Kurtosis:      39.954  Cond. No.      530.
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 4.869281645297291
LM P-Value: 0.0876292158259248
F Statistic: 2.4535931226036434
F P-Value: 0.08812069629245363

Rainbow Test Results:

Rainbow Statistic: 5.420218249174913
Rainbow P-Value: 7.464289073048168e-19

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002			
Model:	OLS	Adj. R-squared:	-0.003			
Method:	Least Squares	F-statistic:	0.3996			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.528			
Time:	19:11:21	Log-Likelihood:	-5654.0			
No. Observations:	237	AIC:	1.131e+04			
Df Residuals:	235	BIC:	1.132e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-7.288e+08	3.73e+08	-1.954	0.052	-1.46e+09	5.93e+06
Food Price Index (% change)	-2.271e+09	3.59e+09	-0.632	0.528	-9.35e+09	4.81e+09
=====						
Omnibus:	231.558	Durbin-Watson:	1.721			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14205.408			
Skew:	-3.484	Prob(JB):	0.00			
Kurtosis:	40.282	Cond. No.	9.92			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.823278370589062
LM P-Value: 0.6625632955089853
F Statistic: 0.4078453147049089
F P-Value: 0.6655535909556567

Rainbow Test Results:

Rainbow Statistic: 5.410130426412447
Rainbow P-Value: 2.9584039946223652e-18

Regression Summary:

OLS Regression Results			
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.4424
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.506
Time:	19:11:22	Log-Likelihood:	-7213.5
No. Observations:	302	AIC:	1.443e+04
Df Residuals:	300	BIC:	1.444e+04
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]
const	-4.862e+08	3.6e+08	-1.350	0.178	-1.2e+09	2.23e+08
Foreign direct investment, net inflows (% of GDP)	-2.104e+07	3.16e+07	-0.665	0.506	-8.33e+07	4.12e+07
Omnibus:	261.845	Durbin-Watson:	2.428			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14270.731			
Skew:	-3.077	Prob(JB):	0.00			
Kurtosis:	36.109	Cond. No.	12.4			

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.5615890097078504
LM P-Value: 0.7551835060811547
F Statistic: 0.2785230876035462
F P-Value: 0.7570969511705283

Rainbow Test Results:

Rainbow Statistic: 3.3616882374731047
Rainbow P-Value: 3.1635306423909767e-13

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.009			
Model:	OLS	Adj. R-squared:	0.006			
Method:	Least Squares	F-statistic:	0.06199			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.804			
Time:	19:11:22	Log-Likelihood:	-7472.4			
No. Observations:	313	AIC:	1.495e+04			
Df Residuals:	311	BIC:	1.496e+04			
Df Model:	1					
Covariance Type:	HC3					
=====						
	coef	std err	z	P> z	[0.025	0.975]

const	-4.598e+08	4.33e+08	-1.062	0.288	-1.31e+09	3.89e+08
GDP (constant 2015 US\$)	-0.0031	0.012	-0.249	0.803	-0.028	0.021
=====						
Omnibus:	198.754	Durbin-Watson:	2.463			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	11728.018			
Skew:	-1.825	Prob(JB):	0.00			
Kurtosis:	32.765	Cond. No.	1.92e+11			
=====						

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 1.92e+11. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 194.5843459604967
LM P-Value: 3.1748873433044077e-44
F Statistic: 511.04503103556317
F P-Value: 1.3048542106458867e-67

Rainbow Test Results:

Rainbow Statistic: 3.3413779253002325
Rainbow P-Value: 1.6036283837262709e-13

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.014			
Model:	OLS	Adj. R-squared:	0.011			
Method:	Least Squares	F-statistic:	4.390			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0370			
Time:	19:11:23	Log-Likelihood:	-7424.8			
No. Observations:	311	AIC:	1.485e+04			
Df Residuals:	309	BIC:	1.486e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-1.059e+09	3.79e+08	-2.793	0.006	-1.81e+09	-3.13e+08
GDP growth (annual %)	1.119e+08	5.34e+07	2.095	0.037	6.81e+06	2.17e+08
=====						
Omnibus:	267.761	Durbin-Watson:	2.458			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14400.767			
Skew:	-3.067	Prob(JB):	0.00			
Kurtosis:	35.767	Cond. No.	8.43			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.03843736803925302
LM P-Value: 0.9809648174555095
F Statistic: 0.019035647454125188
F P-Value: 0.9811455405223163

Rainbow Test Results:

Rainbow Statistic: 3.611455729639068
Rainbow P-Value: 6.712479409294268e-15

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.002				
Method:	Least Squares	F-statistic:	0.3984				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.528				
Time:	19:11:23	Log-Likelihood:	-7777.5				
No. Observations:	326	AIC:	1.556e+04				
Df Residuals:	324	BIC:	1.557e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.344e+09	1.18e+09	-1.139	0.256	-3.66e+09	9.78e+08	
GDP growth China (annual %)	7.431e+07	1.18e+08	0.631	0.528	-1.57e+08	3.06e+08	
=====							
Omnibus:	281.423	Durbin-Watson:	2.397				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16263.217				
Skew:	-3.085	Prob(JB):	0.00				
Kurtosis:	37.047	Cond. No.	38.7				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.5424553837098021
LM P-Value: 0.7624428746073055
F Statistic: 0.2691796393056993
F P-Value: 0.7641772141023662

Rainbow Test Results:

Rainbow Statistic: 3.211323846294206
Rainbow P-Value: 2.805959244337912e-13

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.010			
Model:	OLS	Adj. R-squared:	0.007			
Method:	Least Squares	F-statistic:	3.223			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0736			
Time:	19:11:24	Log-Likelihood:	-7776.1			
No. Observations:	326	AIC:	1.556e+04			
Df Residuals:	324	BIC:	1.556e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-1.224e+09	4.54e+08	-2.697	0.007	-2.12e+09	-3.31e+08
GDP growth USA (annual %)	2.612e+08	1.46e+08	1.795	0.074	-2.5e+07	5.48e+08
=====						
Omnibus:	279.729	Durbin-Watson:	2.388			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16251.887			
Skew:	-3.051	Prob(JB):	0.00			
Kurtosis:	37.047	Cond. No.	4.87			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.4688972316857394
LM P-Value: 0.47976992359233006
F Statistic: 0.7309835664244575
F P-Value: 0.48222992912536455

Rainbow Test Results:

Rainbow Statistic: 3.280798386210824
Rainbow P-Value: 1.109374366662166e-13

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.038

Model:

OLS

Adj. R-squared:

0.035

Method:

Least Squares

F-statistic:

2.068

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.151

Time:

19:11:24

Log-Likelihood:

-7421.0

No. Observations:

311

AIC:

1.485e+04

Df Residuals:

309

BIC:

1.485e+04

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

1.121e+08

4.02e+08

0.279

0.780

-6.76e+08

9e+08

GDP per capita (constant 2015 US\$)

-1.678e+05

1.17e+05

-1.438

0.150

-3.96e+05

6.09e+04

Omnibus:

227.259

Durbin-Watson:

2.410

Prob(Omnibus):

0.000

Jarque-Bera (JB):

11544.219

Skew:

-2.357

Prob(JB):

0.00

Kurtosis:

32.473

Cond. No.

9.64e+03

Notes:

- [1] Standard Errors are heteroscedasticity robust (HC3)
- [2] The condition number is large, 9.64e+03. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 23.75779837779394
LM P-Value: 6.935210239795755e-06
F Statistic: 12.737337792001599
F P-Value: 4.843174277960058e-06

Rainbow Test Results:

Rainbow Statistic: 3.263810266464775
Rainbow P-Value: 5.094123812576682e-13

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.001
Model:	OLS	Adj. R-squared:	-0.003
Method:	Least Squares	F-statistic:	0.2591
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.611
Time:	19:11:24	Log-Likelihood:	-6114.4
No. Observations:	255	AIC:	1.223e+04
Df Residuals:	253	BIC:	1.224e+04
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]

const	-1.224e+09	9.69e+08	-1.263	0.208	-3.13e+09	6.85e+08
General government final consumption expenditure (% of GDP)	2.946e+07	5.79e+07	0.509	0.611	-8.45e+07	1.43e+08
=====						
Omnibus:	203.783	Durbin-Watson:	2.364			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7638.437			
Skew:	-2.716	Prob(JB):	0.00			
Kurtosis:	29.257	Cond. No.	41.3			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.3073331508764818
LM P-Value: 0.5201351613864986
F Statistic: 0.6493052363567254
F P-Value: 0.5232803289562432

Rainbow Test Results:

Rainbow Statistic: 3.3664766963713233
Rainbow P-Value: 2.0002340549800495e-11

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.003						
Model:	OLS	Adj. R-squared:	-0.002						
Method:	Least Squares	F-statistic:	0.5428						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.462						
Time:	19:11:25	Log-Likelihood:	-4811.0						
No. Observations:	200	AIC:	9626.						
Df Residuals:	198	BIC:	9633.						
Df Model:	1								
Covariance Type:	nonrobust								
=====									
		coef	std err	t	P> t	[0.025	0.975]		

const		-1.14e+09	5.4e+08	-2.110	0.036	-2.21e+09	-7.45e+07		
General government final consumption expenditure (annual % growth)		3.654e+07	4.96e+07	0.737	0.462	-6.13e+07	1.34e+08		
=====									
Omnibus:	166.609	Durbin-Watson:	2.286						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	4573.195						
Skew:	-2.836	Prob(JB):	0.00						
Kurtosis:	25.729	Cond. No.	12.3						
=====									

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.5933804484513416
LM P-Value: 0.7432742250515461
F Statistic: 0.2931094980893889
F P-Value: 0.7462651941442431

Rainbow Test Results:

Rainbow Statistic: 5.315470225490648
Rainbow P-Value: 2.0358798887677964e-15

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.006				
Model:	OLS	Adj. R-squared:	0.002				
Method:	Least Squares	F-statistic:	1.551				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.214				
Time:	19:11:25	Log-Likelihood:	-6301.6				
No. Observations:	263	AIC:	1.261e+04				
Df Residuals:	261	BIC:	1.261e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	3.424e+08	9.49e+08	0.361	0.719	-1.53e+09	2.21e+09	
Gross capital formation (% of GDP)	-4.568e+07	3.67e+07	-1.245	0.214	-1.18e+08	2.66e+07	
=====							
Omnibus:	213.819	Durbin-Watson:	2.400				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8702.371				
Skew:	-2.782	Prob(JB):	0.00				
Kurtosis:	30.626	Cond. No.	64.5				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.16644333226746177
LM P-Value: 0.9201471591491044
F Statistic: 0.08232446978649835
F P-Value: 0.9209970790989849

Rainbow Test Results:

Rainbow Statistic: 3.4143335187980406
Rainbow P-Value: 5.9189973637238176e-12

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.005
Method:             Least Squares  F-statistic:    0.002884
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.957
Time:               19:11:26  Log-Likelihood:    -4404.8
No. Observations:   184  AIC:              8814.
Df Residuals:       182  BIC:              8820.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -6.488e+08  6.59e+08  -0.984  0.326  -1.95e+09  6.52e+08
Gross debt (% of GDP) -4.428e+05  8.25e+06  -0.054  0.957  -1.67e+07  1.58e+07
=====
```

```
=====
Omnibus:          184.071  Durbin-Watson:      1.698
Prob(Omnibus):    0.000  Jarque-Bera (JB):    9417.148
Skew:             -3.417  Prob(JB):          0.00
Kurtosis:         37.375  Cond. No.          118.
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.0147109126079537
LM P-Value: 0.6020857172782976
F Statistic: 0.5018509304710406
F P-Value: 0.6062489354468399

Rainbow Test Results:

Rainbow Statistic: 6.801624257495545
Rainbow P-Value: 8.553044694386386e-18

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.006				
Model:	OLS	Adj. R-squared:	0.002				
Method:	Least Squares	F-statistic:	1.636				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.202				
Time:	19:11:27	Log-Likelihood:	-6184.1				
No. Observations:	258	AIC:	1.237e+04				
Df Residuals:	256	BIC:	1.238e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-3.295e+08	5.15e+08	-0.640	0.523	-1.34e+09	6.85e+08	
Gross domestic savings (% of GDP)	-2.984e+07	2.33e+07	-1.279	0.202	-7.58e+07	1.61e+07	
=====							
Omnibus:	201.791	Durbin-Watson:	2.412				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7880.996				
Skew:	-2.615	Prob(JB):	0.00				
Kurtosis:	29.566	Cond. No.	29.3				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.4351403656064994
LM P-Value: 0.29594839448808025
F Statistic: 1.214879060677578
F P-Value: 0.29845753975803074

Rainbow Test Results:

Rainbow Statistic: 3.368280933881658
Rainbow P-Value: 1.4503095043406933e-11

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001			
Model:	OLS	Adj. R-squared:	-0.003			
Method:	Least Squares	F-statistic:	0.3116			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.577			
Time:	19:11:27	Log-Likelihood:	-6137.8			
No. Observations:	256	AIC:	1.228e+04			
Df Residuals:	254	BIC:	1.229e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-2.387e+09	2.93e+09	-0.815	0.416	-8.15e+09	3.38e+09
Gross national expenditure (% of GDP)	1.485e+07	2.66e+07	0.558	0.577	-3.75e+07	6.72e+07
=====						
Omnibus:	200.804	Durbin-Watson:	2.421			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7588.531			
Skew:	-2.635	Prob(JB):	0.00			
Kurtosis:	29.147	Cond. No.	821.			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.1301307170022596
LM P-Value: 0.20907434794071214
F Statistic: 1.565870765162802
F P-Value: 0.21092376795922274

Rainbow Test Results:

Rainbow Statistic: 3.3537563733358238
Rainbow P-Value: 2.0141815270910855e-11

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.000

Model:

OLS

Adj. R-squared:

-0.004

Method:

Least Squares

F-statistic:

0.0003329

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.985

Time:

19:11:28

Log-Likelihood:

-6396.2

No. Observations:

267

AIC:

1.280e+04

Df Residuals:

265

BIC:

1.280e+04

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

-7.493e+08

1.15e+09

-0.653

0.514

-3e+09

1.5e+09

Imports of goods and services (% of GDP)

3.648e+05

2e+07

0.018

0.985

-3.88e+07

3.96e+07

Omnibus:

215.457

Durbin-Watson:

2.415

Prob(Omnibus):

0.000

Jarque-Bera (JB):

8784.051

Skew:

-2.758

Prob(JB):

0.00

Kurtosis:

30.553

Cond. No.

103.

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 13.787315167199083
LM P-Value: 0.0010141975365150603
F Statistic: 7.187339778305329
F P-Value: 0.0009132590224671544

Rainbow Test Results:

Rainbow Statistic: 3.419212850725463
Rainbow P-Value: 3.907715143722358e-12

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.011				
Model:	OLS	Adj. R-squared:	0.007				
Method:	Least Squares	F-statistic:	2.470				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.118				
Time:	19:11:28	Log-Likelihood:	-5233.9				
No. Observations:	218	AIC:	1.047e+04				
Df Residuals:	216	BIC:	1.048e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.155e+09	4.6e+08	-2.511	0.013	-2.06e+09	-2.48e+08	
Imports of goods and services (annual % growth)	4.477e+07	2.85e+07	1.572	0.118	-1.14e+07	1.01e+08	
=====							
Omnibus:	191.391	Durbin-Watson:	2.338				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	6086.839				
Skew:	-3.101	Prob(JB):	0.00				
Kurtosis:	28.133	Cond. No.	16.9				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.5648644567167653
LM P-Value: 0.7539477365037173
F Statistic: 0.27926916661987766
F P-Value: 0.7566102317362066

Rainbow Test Results:

Rainbow Statistic: 4.869552403615339
Rainbow P-Value: 2.7952228166814112e-15

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.2109				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.646				
Time:	19:11:29	Log-Likelihood:	-6450.4				
No. Observations:	272	AIC:	1.290e+04				
Df Residuals:	270	BIC:	1.291e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-4.953e+08	3.59e+08	-1.381	0.168	-1.2e+09	2.11e+08	
Inflation, consumer prices (annual %)	9.882e+06	2.15e+07	0.459	0.646	-3.25e+07	5.22e+07	
=====							
Omnibus:	243.976	Durbin-Watson:	1.804				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	26784.257				
Skew:	-2.900	Prob(JB):	0.00				
Kurtosis:	51.267	Cond. No.	20.4				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.6087233822656497
LM P-Value: 0.7375940369757739
F Statistic: 0.3016799063517795
F P-Value: 0.7398246491825853

Rainbow Test Results:

Rainbow Statistic: 2.7645037524527103
Rainbow P-Value: 3.98279797450769e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.010				
Model:	OLS	Adj. R-squared:	0.002				
Method:	Least Squares	F-statistic:	1.318				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.253				
Time:	19:11:29	Log-Likelihood:	-3196.6				
No. Observations:	134	AIC:	6397.				
Df Residuals:	132	BIC:	6403.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.169e+09	6.43e+08	-1.817	0.071	-2.44e+09	1.03e+08	
Interest payments (% of revenue)	4.864e+07	4.24e+07	1.148	0.253	-3.52e+07	1.32e+08	
=====							
Omnibus:	83.944	Durbin-Watson:	1.843				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2172.684				
Skew:	-1.548	Prob(JB):	0.00				
Kurtosis:	22.482	Cond. No.	20.3				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.3446804209818835
LM P-Value: 0.3096414665064088
F Statistic: 1.166504840559357
F P-Value: 0.31466733933407404

Rainbow Test Results:

Rainbow Statistic: 1.961930115539451
Rainbow P-Value: 0.003508101449908512

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.017
Method:             Least Squares  F-statistic:    0.001741
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.967
Time:               19:11:29  Log-Likelihood:    -1506.2
No. Observations:   62  AIC:              3016.
Df Residuals:       60  BIC:              3021.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -5.842e+08  1.38e+09  -0.424   0.673  -3.34e+09  2.17e+09
Net debt (% of GDP) -6.598e+05  1.58e+07  -0.042   0.967  -3.23e+07  3.1e+07
=====
```

```
=====
Omnibus:          58.879  Durbin-Watson:      1.724
Prob(Omnibus):    0.000  Jarque-Bera (JB):    895.738
Skew:             -2.120  Prob(JB):      3.11e-195
Kurtosis:         21.132  Cond. No.      108.
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.435593014611509
LM P-Value: 0.8042890919694516
F Statistic: 0.20872440035180084
F P-Value: 0.8122155971640512

Rainbow Test Results:

Rainbow Statistic: 8.092698632819792
Rainbow P-Value: 9.566987734974487e-08

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.009
Model:	OLS	Adj. R-squared:	0.004
Method:	Least Squares	F-statistic:	1.805
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.181
Time:	19:11:30	Log-Likelihood:	-4784.1
No. Observations:	200	AIC:	9572.
Df Residuals:	198	BIC:	9579.
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]
const	-4.871e+08	4.66e+08	-1.045	0.298	-1.41e+09	4.32e+08
Net lending/borrowing (overall balance) (% of GDP)	9.175e+07	6.83e+07	1.344	0.181	-4.29e+07	2.26e+08

=====

Omnibus:	190.080	Durbin-Watson:	1.762
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9233.116
Skew:	-3.245	Prob(JB):	0.00
Kurtosis:	35.647	Cond. No.	7.60

=====

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.173540720230972
LM P-Value: 0.2045852826997793
F Statistic: 1.5881694061184666
F P-Value: 0.2069036763574869

Rainbow Test Results:

Rainbow Statistic: 6.129414136264494
Rainbow P-Value: 1.4239133476495318e-17

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.840				
Model:	OLS	Adj. R-squared:	0.800				
Method:	Least Squares	F-statistic:	21.01				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0102				
Time:	19:11:30	Log-Likelihood:	-137.19				
No. Observations:	6	AIC:	278.4				
Df Residuals:	4	BIC:	278.0				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	4.22e+09	1.73e+09	2.444	0.071	-5.74e+08	9.01e+09	
Net official aid received (current US\$)	-42.4894	9.269	-4.584	0.010	-68.225	-16.753	
=====							
Omnibus:	nan	Durbin-Watson:	2.739				
Prob(Omnibus):	nan	Jarque-Bera (JB):	0.851				
Skew:	0.673	Prob(JB):	0.653				
Kurtosis:	1.738	Cond. No.	3.12e+08				
=====							

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 3.12e+08. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 2.658438555865422
LM P-Value: 0.10300180336610097
F Statistic: 3.1822710434150623
F P-Value: 0.1490069641263513

Rainbow Test Results:

Rainbow Statistic: 39.66168972485643
Rainbow P-Value: 0.11607590458528504

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.001

Model:

OLS

Adj. R-squared:

-0.002

Method:

Least Squares

F-statistic:

0.3229

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.570

Time:

19:11:31

Log-Likelihood:

-7377.1

No. Observations:

309

AIC:

1.476e+04

Df Residuals:

307

BIC:

1.477e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-6.116e+08

3.31e+08

-1.848

0.066

-1.26e+09

3.98e+07

Official exchange rate (LCU per US\$, period average)

1.514e+05

2.66e+05

0.568

0.570

-3.73e+05

6.76e+05

Omnibus:

268.564

Durbin-Watson:

2.406

Prob(Omnibus):

0.000

Jarque-Bera (JB):

15176.631

Skew:

-3.091

Prob(JB):

0.00

Kurtosis:

36.772

Cond. No.

1.27e+03

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 1.27e+03. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 0.11295455378943875
LM P-Value: 0.9450879595843605
F Statistic: 0.0559494060517194
F P-Value: 0.9455966465695089

Rainbow Test Results:

Rainbow Statistic: 3.3165045202309216
Rainbow P-Value: 3.10781303992747e-13

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.004
Model:              OLS  Adj. R-squared:    0.001
Method:             Least Squares  F-statistic:    0.7790
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.378
Time:               19:11:31  Log-Likelihood:    -7777.1
No. Observations:   326  AIC:              1.556e+04
Df Residuals:       324  BIC:              1.557e+04
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z      P>|z|      [0.025      0.975]
-----
const      4.227e+07  6.23e+08    0.068    0.946  -1.18e+09  1.26e+09
Oil price  -8.963e+06  1.02e+07   -0.883    0.377  -2.89e+07  1.09e+07
=====
```

```
=====
Omnibus:      275.295  Durbin-Watson:      2.413
Prob(Omnibus):    0.000  Jarque-Bera (JB):    15678.146
Skew:           -2.979  Prob(JB):      0.00
Kurtosis:        36.447  Cond. No.      186.
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 4.956430639402801
LM P-Value: 0.08389281392101891
F Statistic: 2.4933174953723176
F P-Value: 0.08422472267807284

Rainbow Test Results:

Rainbow Statistic: 3.2012801313724077
Rainbow P-Value: 3.2106308921682973e-13

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.003
Method:            Least Squares  F-statistic:    0.1259
Date:              Sat, 26 Aug 2023  Prob (F-statistic):  0.723
Time:              19:11:31  Log-Likelihood:  -7777.7
No. Observations:   326  AIC:              1.556e+04
Df Residuals:       324  BIC:              1.557e+04
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -6.191e+08  3.09e+08  -2.001   0.046  -1.23e+09  -1.06e+07
Oil price (% change) -4.662e+08  1.31e+09  -0.355   0.723  -3.05e+09  2.12e+09
=====
```

```
=====
Omnibus:          280.164  Durbin-Watson:      2.406
Prob(Omnibus):    0.000  Jarque-Bera (JB):    16266.464
Skew:             -3.060  Prob(JB):          0.00
Kurtosis:         37.060  Cond. No.          4.25
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.1037786803092917
LM P-Value: 0.2118473437894326
F Statistic: 1.552388116594484
F P-Value: 0.21331729621181075

Rainbow Test Results:

Rainbow Statistic: 3.249614994718392
Rainbow P-Value: 1.681094538494888e-13

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.054
Model:              OLS  Adj. R-squared:    0.048
Method:             Least Squares  F-statistic:    4.306
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.0395
Time:               19:11:32  Log-Likelihood:    -4051.8
No. Observations:   169  AIC:              8108.
Df Residuals:       167  BIC:              8114.
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z      P>|z|    [0.025    0.975]
-----
const    -1.813e+09  9.18e+08   -1.975    0.048  -3.61e+09  -1.35e+07
PV:GE    -2.169e+09  1.05e+09   -2.075    0.038  -4.22e+09  -1.2e+08
=====
```

```
=====
Omnibus:      139.910  Durbin-Watson:      1.663
Prob(Omnibus):    0.000  Jarque-Bera (JB):    4946.310
Skew:           -2.542  Prob(JB):      0.00
Kurtosis:        29.011  Cond. No.      1.94
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 8.122932787445627
LM P-Value: 0.01722374379830311
F Statistic: 4.190798807061879
F P-Value: 0.01676552573439998

Rainbow Test Results:

Rainbow Statistic: 6.951720605999249
Rainbow P-Value: 1.0438437375822319e-16

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.019
Model:	OLS	Adj. R-squared:	0.014
Method:	Least Squares	F-statistic:	3.666
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0570
Time:	19:11:32	Log-Likelihood:	-4615.8
No. Observations:	193	AIC:	9236.
Df Residuals:	191	BIC:	9242.
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]

const	-5.442e+08	4.34e+08	-1.253	0.212	-1.4e+09	3.12e+08
Primary net lending/borrowing (primary balance) (% of GDP)	1.397e+08	7.29e+07	1.915	0.057	-4.21e+06	2.84e+08
=====						
Omnibus:	187.445	Durbin-Watson:	1.760			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9331.948			
Skew:	-3.315	Prob(JB):	0.00			
Kurtosis:	36.414	Cond. No.	6.07			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.067751047940952
LM P-Value: 0.35562604914190793
F Statistic: 1.028827506262248
F P-Value: 0.359408223099038

Rainbow Test Results:

Rainbow Statistic: 5.749872517256087
Rainbow P-Value: 5.0227362602774575e-16

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.057

Model:

OLS

Adj. R-squared:

0.052

Method:

Least Squares

F-statistic:

11.09

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.00105

Time:

19:11:33

Log-Likelihood:

-4397.5

No. Observations:

186

AIC:

8799.

Df Residuals:

184

BIC:

8806.

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-9.842e+08

3.84e+08

-2.562

0.011

-1.74e+09

-2.26e+08

Real interest rate (%)

8.542e+07

2.56e+07

3.331

0.001

3.48e+07

1.36e+08

Omnibus:

119.027

Durbin-Watson:

1.676

Prob(Omnibus):

0.000

Jarque-Bera (JB):

8583.878

Skew:

-1.478

Prob(JB):

0.00

Kurtosis:

36.149

Cond. No.

17.4

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.072116887714097
LM P-Value: 0.2152277640622596
F Statistic: 1.5366640144919566
F P-Value: 0.2178598723026022

Rainbow Test Results:

Rainbow Statistic: 5.882366900363083
Rainbow P-Value: 7.345172060864504e-16

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001			
Model:	OLS	Adj. R-squared:	-0.002			
Method:	Least Squares	F-statistic:	0.4809			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.489			
Time:	19:11:33	Log-Likelihood:	-7777.5			
No. Observations:	326	AIC:	1.556e+04			
Df Residuals:	324	BIC:	1.557e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-1.089e+09	7.37e+08	-1.477	0.141	-2.54e+09	3.61e+08
Real interest rate USA (%)	1e+08	1.44e+08	0.693	0.489	-1.84e+08	3.84e+08
=====						
Omnibus:	279.076	Durbin-Watson:	2.410			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	15996.492			
Skew:	-3.045	Prob(JB):	0.00			
Kurtosis:	36.772	Cond. No.	12.6			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.0651199654729826
LM P-Value: 0.21598204867527038
F Statistic: 1.5328690241542282
F P-Value: 0.21748179009756802

Rainbow Test Results:

Rainbow Statistic: 3.224459190077336
Rainbow P-Value: 2.3531865928108797e-13

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.008
Model:              OLS  Adj. R-squared:    0.003
Method:             Least Squares  F-statistic:    1.287
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.258
Time:               19:11:33  Log-Likelihood:  -4878.1
No. Observations:   204  AIC:              9760.
Df Residuals:       202  BIC:              9767.
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z      P>|z|    [0.025    0.975]
-----
const          4.496e+08  7.18e+08    0.626    0.531  -9.57e+08  1.86e+09
Revenue (% of GDP) -4.96e+07  4.37e+07   -1.134    0.257  -1.35e+08  3.61e+07
=====
```

```
=====
Omnibus:          192.204  Durbin-Watson:      1.705
Prob(Omnibus):    0.000  Jarque-Bera (JB):    9887.460
Skew:             -3.193  Prob(JB):             0.00
Kurtosis:         36.503  Cond. No.             63.3
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 6.557483395447813
LM P-Value: 0.037675634329733164
F Statistic: 3.3378174699952736
F P-Value: 0.03749352764703347

Rainbow Test Results:

Rainbow Statistic: 6.054795919182195
Rainbow P-Value: 1.0610493218991181e-17

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.006				
Model:	OLS	Adj. R-squared:	0.002				
Method:	Least Squares	F-statistic:	1.349				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.247				
Time:	19:11:34	Log-Likelihood:	-5999.2				
No. Observations:	253	AIC:	1.200e+04				
Df Residuals:	251	BIC:	1.201e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	1.055e+08	2.11e+08	0.500	0.617	-3.08e+08	5.19e+08	
Short-term debt (% of total external debt)	-3.062e+07	2.64e+07	-1.161	0.245	-8.23e+07	2.1e+07	
=====							
Omnibus:	185.712	Durbin-Watson:	2.514				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	13122.200				
Skew:	-2.132	Prob(JB):	0.00				
Kurtosis:	38.023	Cond. No.	23.2				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 9.942518114641219
LM P-Value: 0.006934411714303083
F Statistic: 5.113254505435643
F P-Value: 0.006661302126683559

Rainbow Test Results:

Rainbow Statistic: 5.51878430097607
Rainbow P-Value: 9.301879187656004e-20

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000			
Model:	OLS	Adj. R-squared:	-0.005			
Method:	Least Squares	F-statistic:	0.0005227			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.982			
Time:	19:11:34	Log-Likelihood:	-5185.8			
No. Observations:	218	AIC:	1.038e+04			
Df Residuals:	216	BIC:	1.038e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-2.605e+08	3.54e+08	-0.736	0.462	-9.58e+08	4.37e+08
Short-term debt (% of total reserves)	347.2549	1.52e+04	0.023	0.982	-2.96e+04	3.03e+04
=====						
Omnibus:	160.038	Durbin-Watson:	2.474			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8488.142			
Skew:	-2.132	Prob(JB):	0.00			
Kurtosis:	33.270	Cond. No.	2.34e+04			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 2.34e+04. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 0.031409803628297484

LM P-Value: 0.9844177770966452

F Statistic: 0.0154910112828622

F P-Value: 0.9846294561419777

Rainbow Test Results:

Rainbow Statistic: 5.577811527494609

Rainbow P-Value: 1.900050152467837e-17

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.021
Model:              OLS  Adj. R-squared:      0.018
Method:            Least Squares  F-statistic:      0.1215
Date:              Sat, 26 Aug 2023  Prob (F-statistic):      0.728
Time:              19:11:35  Log-Likelihood:      -6695.6
No. Observations:      280  AIC:              1.340e+04
Df Residuals:          278  BIC:              1.340e+04
Df Model:              1
Covariance Type:      HC3
=====
```

```
=====
              coef  std err          z      P>|z|      [0.025      0.975]
-----
const    -8.387e+08  5.05e+08    -1.659    0.097   -1.83e+09   1.52e+08
TRes       0.0413    0.119     0.349    0.727    -0.191    0.274
=====
```

```
=====
Omnibus:      280.196  Durbin-Watson:      2.306
Prob(Omnibus):      0.000  Jarque-Bera (JB):      13818.335
Skew:          -3.902  Prob(JB):      0.00
Kurtosis:      36.519  Cond. No.      2.22e+10
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

[2] The condition number is large, 2.22e+10. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 49.78826049804312
LM P-Value: 1.7126563963870066e-12
F Statistic: 60.12350390297247
F P-Value: 1.6919781261957087e-13

Rainbow Test Results:

Rainbow Statistic: 3.2385373165099454
Rainbow P-Value: 9.026819106238106e-12

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.013

Model:

OLS

Adj. R-squared:

0.008

Method:

Least Squares

F-statistic:

0.7091

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.401

Time:

19:11:35

Log-Likelihood:

-5487.1

No. Observations:

231

AIC:

1.098e+04

Df Residuals:

229

BIC:

1.099e+04

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

3.852e+08

5.48e+08

0.704

0.482

-6.88e+08

1.46e+09

Total debt service (% of exports of goods, services and primary income)

-3.708e+07

4.4e+07

-0.842

0.400

-1.23e+08

4.92e+07

Omnibus:

149.149

Durbin-Watson:

2.508

Prob(Omnibus):

0.000

Jarque-Bera (JB):

8620.754

Skew:

-1.720

Prob(JB):

0.00

Kurtosis:

32.729

Cond. No.

34.9

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 16.34432780425661
LM P-Value: 0.00028240625529052507
F Statistic: 8.680196291231297
F P-Value: 0.0002327364268517342

Rainbow Test Results:

Rainbow Statistic: 5.496372021807738
Rainbow P-Value: 4.19796699021453e-18

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.005				
Model:	OLS	Adj. R-squared:	0.002				
Method:	Least Squares	F-statistic:	1.382				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.241				
Time:	19:11:35	Log-Likelihood:	-6032.6				
No. Observations:	252	AIC:	1.207e+04				
Df Residuals:	250	BIC:	1.208e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.3e+09	5.81e+08	-2.236	0.026	-2.44e+09	-1.55e+08	
Total reserves in months of imports	1.469e+08	1.25e+08	1.176	0.241	-9.92e+07	3.93e+08	
=====							
Omnibus:	230.474	Durbin-Watson:	2.286				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9600.907				
Skew:	-3.330	Prob(JB):	0.00				
Kurtosis:	32.496	Cond. No.	7.28				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.0916852609294212
LM P-Value: 0.9551922685269955
F Statistic: 0.04531337124594308
F P-Value: 0.9557058256352026

Rainbow Test Results:

Rainbow Statistic: 4.622591804781344
Rainbow P-Value: 1.7196210825874742e-16

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.003
Method:             Least Squares  F-statistic:    0.08438
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.772
Time:               19:11:36  Log-Likelihood:    -6396.2
No. Observations:   267  AIC:              1.280e+04
Df Residuals:       265  BIC:              1.280e+04
Df Model:            1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z  P>|z|  [0.025  0.975]
-----
const      -4.853e+08  1.13e+09   -0.430   0.667  -2.7e+09  1.73e+09
Trade (% of GDP) -3.398e+06  1.17e+07   -0.290   0.771  -2.63e+07  1.95e+07
=====
```

```
=====
Omnibus:      217.852  Durbin-Watson:      2.406
Prob(Omnibus): 0.000  Jarque-Bera (JB):    8892.997
Skew:         -2.808  Prob(JB):      0.00
Kurtosis:     30.710  Cond. No.      180.
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 10.03220707764427
LM P-Value: 0.006630311192732602
F Statistic: 5.153374744706521
F P-Value: 0.006375307869250869

Rainbow Test Results:

Rainbow Statistic: 3.4454541102452803
Rainbow P-Value: 2.950974009070113e-12

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.005						
Model:	OLS	Adj. R-squared:	0.000						
Method:	Least Squares	F-statistic:	0.4519						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.502						
Time:	19:11:36	Log-Likelihood:	-5326.3						
No. Observations:	223	AIC:	1.066e+04						
Df Residuals:	221	BIC:	1.066e+04						
Df Model:	1								
Covariance Type:	HC3								
=====									
		coef	std err	z	P> z	[0.025	0.975]		

const		-3.18e+08	6.17e+08	-0.516	0.606	-1.53e+09	8.91e+08		
Unemployment, total (% of total labor force) (modeled ILO estimate)		-7.065e+07	1.05e+08	-0.672	0.501	-2.77e+08	1.35e+08		
=====									
Omnibus:	208.180	Durbin-Watson:	1.713						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10808.666						
Skew:	-3.231	Prob(JB):	0.00						
Kurtosis:	36.489	Cond. No.	15.2						
=====									

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 5.21701702823015
LM P-Value: 0.07364430132771675
F Statistic: 2.635062966235999
F P-Value: 0.07397733620357022

Rainbow Test Results:

Rainbow Statistic: 5.62278824085838
Rainbow P-Value: 6.577595747238009e-18

Regression Summary:

OLS Regression Results

=====

Dep. Variable:

Sum_GDPcycle

R-squared:

0.010

Model:

OLS

Adj. R-squared:

0.002

Method:

Least Squares

F-statistic:

1.312

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.254

Time:

19:11:37

Log-Likelihood:

-3224.0

No. Observations:

134

AIC:

6452.

Df Residuals:

132

BIC:

6458.

Df Model:

1

Covariance Type:

nonrobust

=====

	coef	std err	t	P> t	[0.025	0.975]	
const	-5.177e+08	9.69e+08	-0.534	0.594	-2.43e+09	1.4e+09	
Unemployment, total (% of total labor force) (national estimate)	-1.089e+08	9.5e+07	-1.145	0.254	-2.97e+08	7.91e+07	

=====

Omnibus:

133.930

Durbin-Watson:

1.978

Prob(Omnibus):

0.000

Jarque-Bera (JB):

3204.800

Skew:

-3.352

Prob(JB):

0.00

Kurtosis:

26.001

Cond. No.

16.8

=====

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.8289294726559304
LM P-Value: 0.14742072042753068
F Statistic: 1.9266560491740023
F P-Value: 0.14973865162351585

Rainbow Test Results:

Rainbow Statistic: 4.837184053873023
Rainbow P-Value: 6.551452273368667e-10

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.005			
Model:	OLS	Adj. R-squared:	0.001			
Method:	Least Squares	F-statistic:	0.05912			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.808			
Time:	19:11:37	Log-Likelihood:	-5669.9			
No. Observations:	239	AIC:	1.134e+04			
Df Residuals:	237	BIC:	1.135e+04			
Df Model:	1					
Covariance Type:	HC3					
=====						
	coef	std err	z	P> z	[0.025	0.975]

const	-3.944e+08	5.39e+08	-0.732	0.464	-1.45e+09	6.62e+08
Use of IMF credit (DOD, current US\$)	0.6138	2.525	0.243	0.808	-4.334	5.562
=====						
Omnibus:	206.375	Durbin-Watson:	2.444			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14010.058			
Skew:	-2.785	Prob(JB):	0.00			
Kurtosis:	40.092	Cond. No.	6.89e+08			
=====						

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 6.89e+08. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 29.718455161125537
LM P-Value: 4.9956953801752204e-08
F Statistic: 33.65453881090831
F P-Value: 2.0954785915056498e-08

Rainbow Test Results:

Rainbow Statistic: 7.069619433021138
Rainbow P-Value: 2.36762684402176e-23